

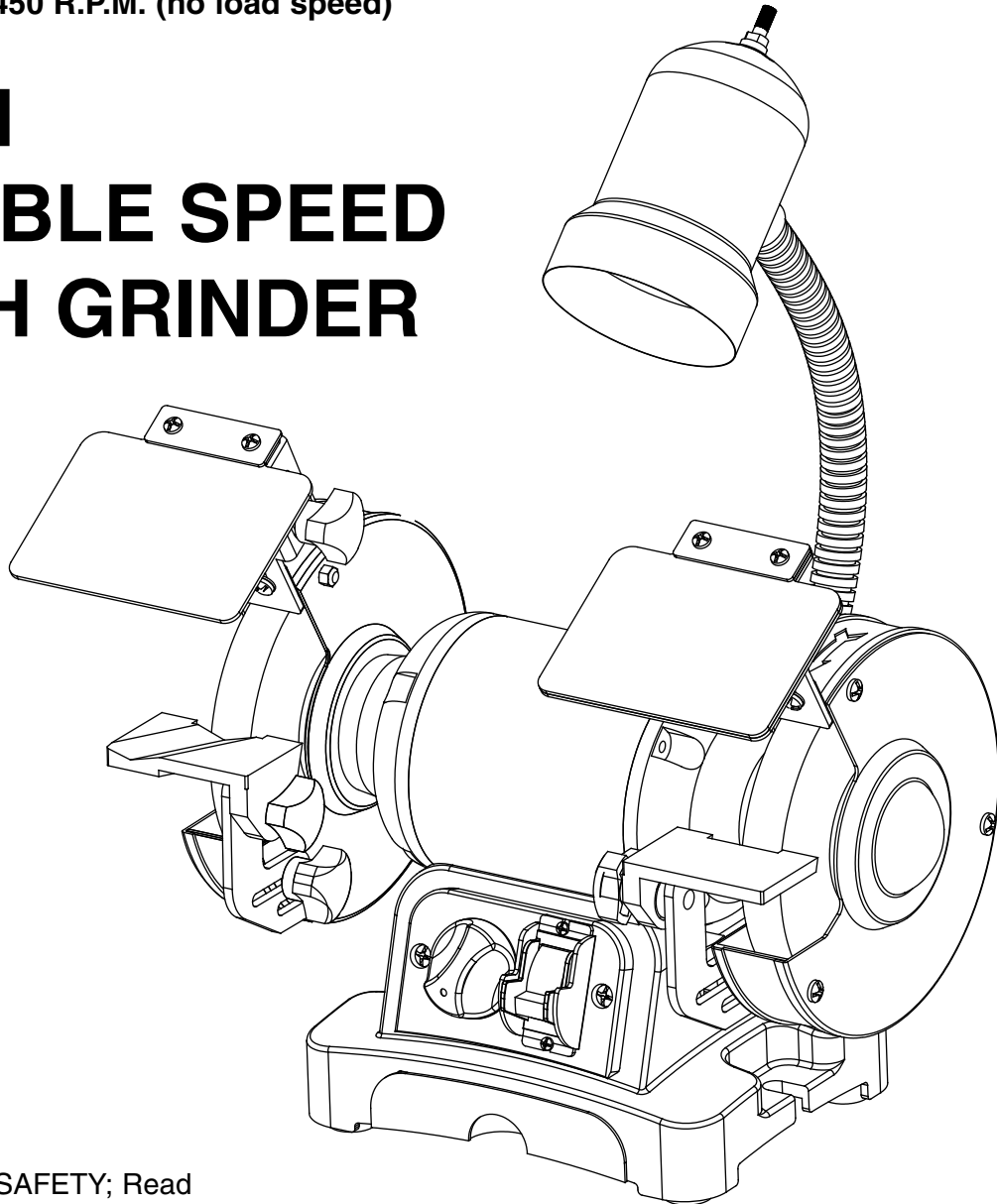
Owner's Manual



8-inch Wheel
1/2 Horsepower (continuous duty)
2000 R.P.M. to 3450 R.P.M. (no load speed)

8-INCH VARIABLE SPEED BENCH GRINDER

Model No.
1010053



CAUTION:

FOR YOUR OWN SAFETY; Read
and follow all of the Safety and
Operating Instructions before
Operating this Bench Grinder

Customer Helpline

1-800-266-9079

Please have your Model No.
and Serial No. available.

TABLE OF CONTENTS

SECTION	PAGE
Contact Information.....	2
Product Specifications.....	2
Safety Instructions	3
Grounding Instructions.....	5
Specific Safety Instructions for Bench Grinders	6
Carton Contents	7
Assembly Instructions	8
Operating the Bench Grinder	10
Maintenance	13
Troubleshooting Guide	13
Parts List	14
Warranty.....	Back Cover

CONTACT INFORMATION

If you are unable to solve a problem using this manual, please contact us for advice.

Exclusive USA Agent: Colovos Company, 4444 West Ohio Street, Chicago, IL 60624, Tel.: (773) 533-4444

Repairs must be carried out only by qualified technical staff; and must follow the instructions and guidelines given in this manual. Should technical assistance be required, contact Colovos Company at (773) 533-4444.

Colovos Company is not liable for, nor do they guarantee against, damage or operating malfunctions resulting from alteration, abuse, and lack of maintenance or this product's use for other than its intended purpose. Failure to read and follow the operating manual is not covered.

For repairs only use proper and suitable tools and parts purchased from an authorized agent.

PRODUCT SPECIFICATIONS

Motor

Continuous Duty HP	1/2
Volts	120
Amps	5.0
Hertz	60
RPM	2000 R.P.M. to 3450 R.P.M. (no load speed)

Grinding Wheel Size 8" x 1", 5/8" bore

Grinding Wheel Grit 36 and 60

Lamp 120V, 40 watt or less Track
Light Bulb, Type R20,
medium base or equivalent
(Not included)

Tool Rests Left and Right

Eye Shield Assemblies Clear Lexan Left and Right

Spark Arrestors Left and Right

Quench tray 3.4" x 2.8" x 0.63"

WARNING

To avoid electrical shock to yourself and damage to the Bench Grinder, use proper circuit protection.

The Bench Grinder is factory wired for 120V, 60 Hz, operation. Connect to a 120V, 15 amp branch circuit and use a 15 amp time delay fuse or circuit breaker. The electrical circuit cannot have any wire size less than #14. To avoid shock or fire, replace power cord immediately if it is damaged in any way.

SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS

Operating a Bench Grinder can be dangerous if safety and common sense are ignored. The operator must be familiar with the operation of the tool. Read this manual to understand this Bench Grinder. **DO NOT** operate this Bench Grinder if you do not fully understand the limitations of this tool. **DO NOT** modify this Bench Grinder in any way.

BEFORE USING THE BENCH GRINDER

WARNING

To avoid serious injury and damage to the tool, read and follow all of the Safety and Operating Instructions before operating the Bench Grinder.

WARNING

1. Some dust created by using power tools contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints.
 - Crystalline silica from bricks, cement, and other masonry products.
 - Arsenic and chromium from chemically treated lumber.Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles
2. **READ** the entire Owner's Manual. **LEARN** how to use the tool for its intended applications.
3. **GROUND ALL TOOLS.** If the tool is supplied with a 3-prong plug, it must be plugged into a 3-contact electrical receptacle. The 3rd prong is used to ground the tool and provide protection against accidental electric shock. **DO NOT** remove the 3rd prong. See Grounding Instructions on page 4.
4. **AVOID A DANGEROUS WORKING ENVIRONMENT.** **DO NOT** use electrical tools in a damp environment or expose them to rain.
5. **DO NOT** use electrical tools in the presence of flammable liquids or gasses.
6. **ALWAYS** keep the work area clean, well lit, and organized. **DO NOT** work in an environment with floor surfaces that are slippery from debris, grease, and wax.
7. **KEEP VISITORS AND CHILDREN AWAY. DO NOT** permit people to be in the immediate work area, especially when the electrical tool is operating.

8. **DO NOT FORCE THE TOOL** to perform an operation for which it was not designed. It will do a safer and higher quality job by only performing operations for which the tool was intended.
9. **WEAR PROPER CLOTHING. DO NOT** wear loose clothing, gloves, neckties, or jewelry. These items can get caught in the machine during operations and pull the operator into the moving parts. The user must wear a protective cover on their hair, if the hair is long, to prevent it from contacting any moving parts.
10. **CHILDPROOF THE WORKSHOP AREA** by removing switch keys, unplugging tools from the electrical receptacles, and using padlocks.
11. **DO NOT** use electrical tools in the presence of flammable liquids or gasses.
12. **ALWAYS UNPLUG THE TOOL FROM THE ELECTRICAL RECEPTACLE** when making adjustments, changing parts or performing any maintenance.
13. **KEEP PROTECTIVE GUARDS IN PLACE AND IN WORKING ORDER.**
14. **AVOID ACCIDENTAL STARTING.** Make sure that the power switch is in the "OFF" position before plugging in the power cord to the electrical receptacle.
15. **REMOVE ALL MAINTENANCE TOOLS** from the immediate area prior to turning "ON" the Bench Grinder.
16. **USE ONLY RECOMMENDED ACCESSORIES.** Use of incorrect or improper accessories could cause serious injury to the operator and cause damage to the tool. If in doubt, check the instruction manual that comes with that particular accessory.
17. **NEVER LEAVE A RUNNING TOOL UNATTENDED.** Turn the power switch to the "OFF" position. **DO NOT** leave the tool until it has come to a complete stop.
18. **DO NOT STAND ON A TOOL.** Serious injury could result if the tool tips over or you accidentally contact the tool.
19. **DO NOT** store anything above or near the tool where anyone might try to stand on the tool to reach it.
20. **MAINTAIN YOUR BALANCE. DO NOT** extend yourself over the tool. Wear oil resistant rubbersoled shoes. Keep floor clear of debris, grease, and wax.
21. **MAINTAIN TOOLS WITH CARE.** Always keep tools clean and in good working order. Keep all blades and tool bits sharp.

22. **EACH AND EVERY TIME, CHECK FOR DAMAGED PARTS PRIOR TO USING THE TOOL.** Carefully check all guards to see that they operate properly, are not damaged, and perform their intended functions. Check for alignment, binding or breaking of moving parts. A guard or other part that is damaged should be immediately repaired or replaced.
23. **CHILDPROOF THE WORKSHOP AREA** by removing switch keys, unplugging tools from the electrical receptacles, and using padlocks.
24. **DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.**
25. **SECURE ALL WORK.** Use clamps or jigs to secure the workpiece. This is safer than attempting to hold the workpiece with your hands.
26. **STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING A POWER TOOL. DO NOT USE A TOOL WHILE TIRED OR UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION.** A moment of inattention while operating power tools may result in serious personal injury.
27. **ALWAYS WEAR A DUST MASK TO PREVENT INHALING DANGEROUS DUST OR AIRBORNE PARTICLES,** including wood dust, crystalline silica dust and asbestos dust. Direct particles away from face and body. Always operate tool in well ventilated area and provide for proper dust removal. Use dust collection system wherever possible. Exposure to the dust may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. Allowing dust to get into your mouth or eyes, or lay on your skin may promote absorption of harmful material. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.
28. **USE A PROPER EXTENSION CORD IN GOOD CONDITION.** When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. The table at right shows the correct size to use depending on cord length and nameplate amperage rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the larger diameter of the extension cord. If in doubt of the proper size of an extension cord, use a shorter and thicker cord. An undersized cord will cause a drop in line voltage resulting in a loss of power and overheating. **USE ONLY A 3-WIRE EXTENSION CORD THAT HAS A 3-PRONG GROUNDING PLUG AND A 3-POLE RECEPTACLE THAT ACCEPTS THE TOOL'S PLUG.**

GUIDELINES FOR EXTENSION CORDS

If you are using an extension cord outdoors, be sure it is marked with the suffix "W-A" ("W" in Canada) to indicate that it is acceptable for outdoor use.

Be sure your extension cord is properly sized, and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

MINIMUM RECOMMENDED GAUGE FOR EXTENSION CORDS (AWG)				
120 VOLT OPERATION ONLY				
	25' LONG	50' LONG	100' LONG	150' LONG
0 to 6 Amps	18 AWG	16 AWG	16 AWG	14 AWG
6 to 10 Amps	18 AWG	16 AWG	14 AWG	12 AWG
10 to 12 Amps	16 AWG	16 AWG	14 AWG	12 AWG

SAVE THESE INSTRUCTIONS.

GROUNDING INSTRUCTIONS

⚠ WARNING

THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

IN THE EVENT OF A MALFUNCTION OR BREAK-DOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching electrical receptacle that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

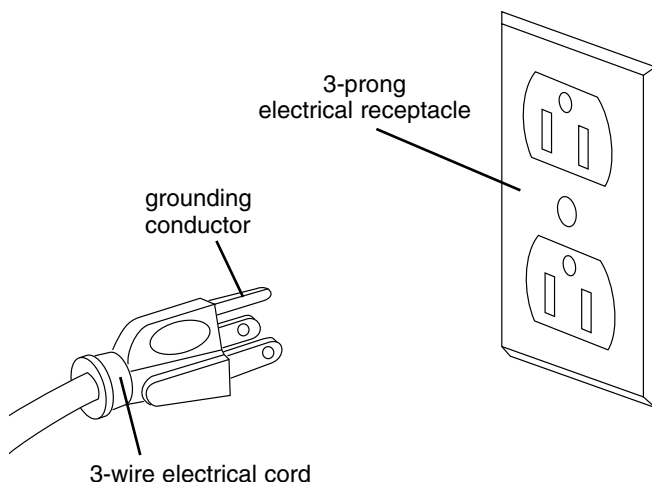
DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the electrical receptacle, have the proper electrical receptacle installed by a qualified electrician.

IMPROPER ELECTRICAL CONNECTION of the equipment grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. **DO NOT** connect the equipment grounding conductor to a live terminal if repair or replacement of the electric cord or plug is necessary.

CHECK with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

120 Volt

Fig. A



USE ONLY A 3-WIRE EXTENSION CORD THAT HAS A 3-PRONG GROUNDING PLUG AND A 3-POLE RECEPTACLE THAT ACCEPTS THE TOOL'S PLUG.

REPLACE A DAMAGED OR WORN CORD IMMEDIATELY.

This tool is intended for use on a circuit that has an electrical receptacle as shown in **FIGURE A**. **FIGURE A** shows a 3-wire electrical plug and electrical receptacle that has a grounding conductor. If a properly grounded electrical receptacle is not available, an adapter as shown in **FIGURE B** can be used to temporarily connect this plug to a 2-contact ungrounded receptacle. The adapter has a rigid lug extending from it that **MUST** be connected to a permanent earth ground, such as a properly grounded receptacle box. **THIS ADAPTER IS PROHIBITED IN CANADA.**

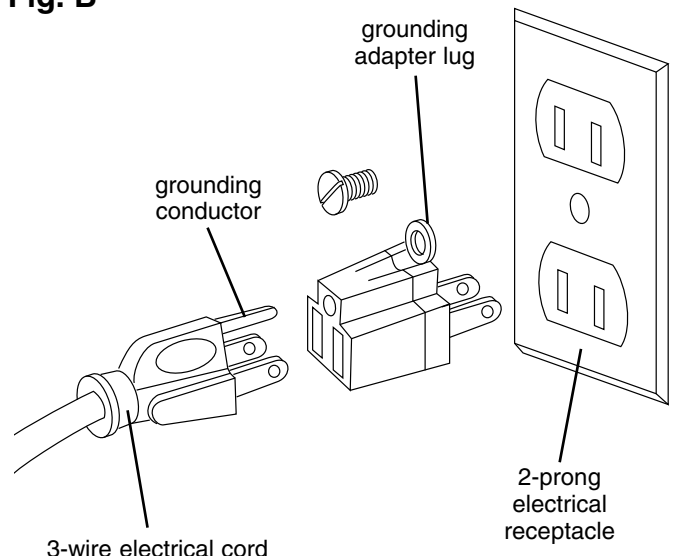
CAUTION: In all cases, make certain the electrical receptacle in question is properly grounded. If you are not sure have a certified electrician check the electrical receptacle.

⚠ WARNING

This Bench Grinder is for indoor use only. To avoid serious injury, do not expose to rain or use in damp locations.

120 Volt

Fig. B



SPECIFIC SAFETY INSTRUCTIONS FOR BENCH GRINDERS

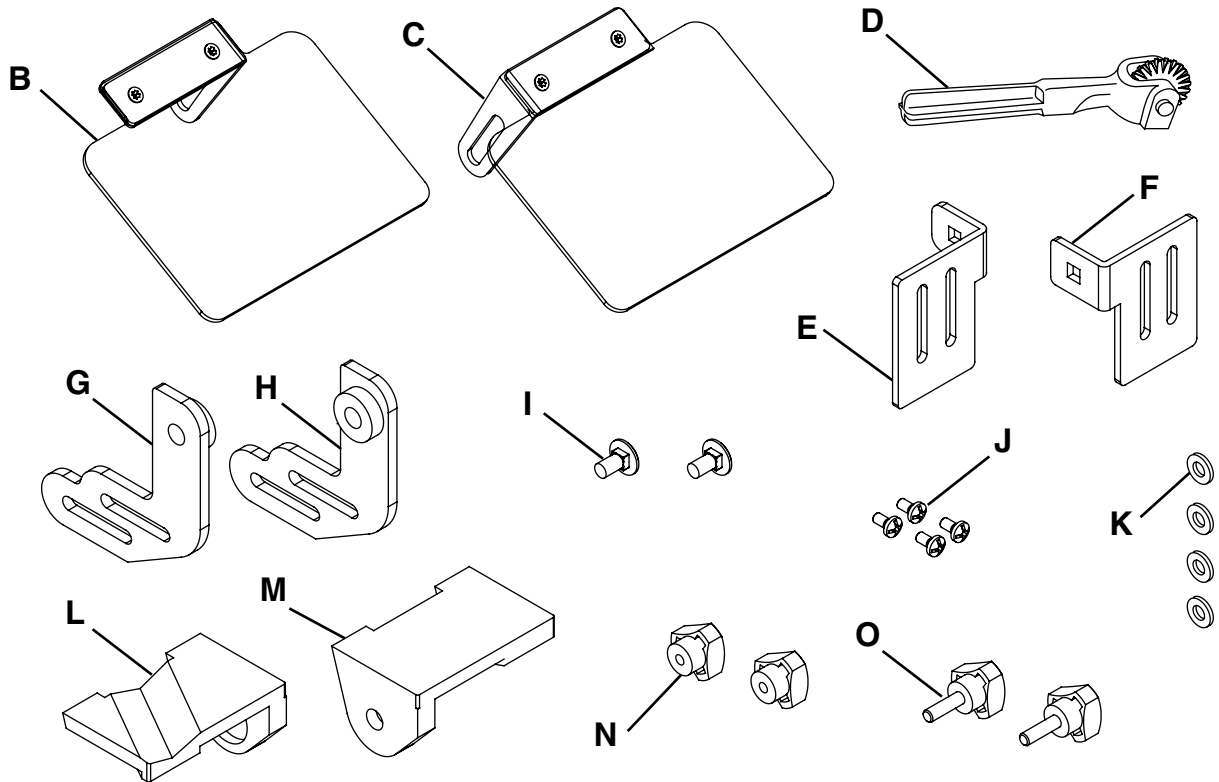
The operation of any grinder can result in debris being thrown into your eyes, which can result in severe eye damage. **ALWAYS WEAR EYE PROTECTION.** Any power tool can throw debris during operations, which could cause severe and permanent eye damage. Everyday eyeglasses are **NOT** safety glasses. **ALWAYS** wear Safety Goggles (that comply with ANSI standard Z87.1) when operating power tools.

Basic precautions should always be followed when using your bench grinder. To reduce the risk of injury, electrical shock, or fire, comply with the safety rules listed below:

1. **ALWAYS USE THE EYE SHIELDS AND WHEEL GUARDS** provided with the grinder.
2. **REPLACE A CRACKED OR DAMAGED GRINDING WHEEL IMMEDIATELY.** A damaged wheel can discharge debris at a high velocity towards the operator. Carefully handle the grinding wheels since they are abrasive. Prior to replacing a grinding wheel, check it for cracks. **DO NOT** remove the blotter or label on both sides of the grinding wheel. Tighten the spindle nut just enough to hold the grinding wheel firmly to the Bench Grinder. Do not over-tighten the nut. Excessive clamping force can damage the grinding wheel. Only use the wheel flanges provided with the grinder. When selecting a replacement grinding wheel, verify that the grinding wheel has a higher R.P.M. rating than the maximum R.P.M. of the Bench Grinder.
3. **THE DIAMETER OF THE GRINDING WHEELS WILL DECREASE WITH USE.** Adjust the tool rests and spark arrestors to maintain a distance of 1/16" from the wheel.
4. **DO NOT STAND IN FRONT OF THE BENCH GRINDER WHEN STARTING IT.** Stand to one side of the Bench Grinder and turn it "ON". Wait at the side for one minute until the grinder comes up to full speed. There is always a possibility that debris from a damaged grinding wheel may be discharged towards the operator.
5. **THE BENCH GRINDER WILL PRODUCE SPARKS AND DEBRIS DURING GRINDING OPERATIONS.** Be sure that there are not any flammable materials in the vicinity. Frequently clean grinding dust from the back of the Bench Grinder.
6. **NEVER FORCE THE WORKPIECE AGAINST A GRINDING WHEEL,** especially if the wheel is cold. Apply the workpiece slowly, allowing the grinding wheel an opportunity to warm up. This will minimize the chance of wheel breakage. **DO NOT** grind using the sides of the grinding wheels. **DO NOT** apply coolant directly to the grinding wheel.
7. **KEEP ALL WHEEL GUARDS IN PLACE. DO NOT USE THE BENCH GRINDER WITH THE WHEEL GUARDS REMOVED.**
8. **KEEP THE TOOL RESTS FIRMLY TIGHTENED.**
9. **ALWAYS USE THE SUPPLIED WHEEL DRESSER TO RESURFACE THE FACE OF THE GRINDING WHEEL.**
10. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
11. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
12. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
13. **DO NOT** overtighten wheel nut.
14. **ONLY** use flanges furnished with the grinder.
15. **FREQUENTLY** clean grinding dust from beneath grinder.
16. **DO NOT FORCE THE TOOL** to perform an operation for which it was not designed. It will do a safer and higher quality job by only performing operations for which the tool was intended.
17. **ADDITIONAL INFORMATION** regarding the safe and proper operation of this product is available from:
 - Power Tool Institute
1300 Summer Avenue
Cleveland, OH 44115-2851
www.powertoolinstitute.org
 - National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201
 - American National Standards Institute
25 West 43rd Street, 4th Floor
New York, NY 10036
www.ansi.org
 - ANSI O1.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor regulations
www.osha.gov
18. **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others.

CARTON CONTENTS

Fig. C



UNPACKING AND CHECKING CONTENTS (Fig. C)

This Bench Grinder will require a minimal amount of assembly.

1. Remove parts from all of the cartons and lay them on a clean work surface.
2. Remove any protective materials and coatings from all of the parts and the bench grinder. The protective coatings can be removed by spraying WD-40 on them and wiping it off with a soft cloth. This may need to be redone several times before all of the protective coatings are removed completely.

CAUTION: DO NOT use acetone, gasoline or lacquer thinner to remove any protective coatings.

3. Compare the items to Figure C; verify that all items are accounted for before discarding the shipping box. If there are any missing parts, call Customer Helpline 1-800-266-9079.

⚠ WARNING

If any parts are missing, do not attempt to plug in the power cord and turn "ON" the Bench Grinder. The Bench Grinder can only be turned "ON" after all the parts have been obtained and installed correctly.

The following items are to be provided in the shipping box:

- A. Grinder (not shown)
- B. Eyeshield assembly, left
- C. Eyeshield assembly, right
- D. Wheel dresser
- E. Spark arrestor, left
- F. Spark arrestor, right
- G. Tool rest support, left
- H. Tool rest support, right
- I. Carriage bolt M6 x 12 (2)
- J. Pan head screws w/ washers M5 x 10 (4)
- K. Flat washer M6 (4)
- L. Tool rest, left
- M. Tool rest, right
- N. Eyeshield knob (2)
- O. Tool rest knob (2)

ASSEMBLY INSTRUCTIONS

The Bench Grinder is provided with a left and right two piece Tool Rest. Right Tool Rest has a flat, smooth surface to lay your workpiece against. Left tool rest is used to sharpen twist drill bits.

⚠ WARNING

1. **DO NOT** assemble the Bench Grinder until you are sure the tool **IS NOT** plugged in.
2. **DO NOT** assemble the Bench Grinder until you are sure the power switch is in the “OFF” position.
3. **DO NOT** assemble the Bench Grinder until you are sure the grinding wheels are firmly tightened to the Bench Grinder.

TOOL RESTS (Figs. D and E)

The Bench Grinder is provided with two different Tool Rests assemblies. The Left Side Tool Rest is grooved to accept drill bits. The Right Side Tool Rest is entirely flat.

1. Assemble the Tool Rest Supports (A) to the inside surface of the Wheel Covers (B) with the flat and lock washers (C) and knobs (D) as shown. See Figure D.
2. Assemble the Tool Rests (E) to the Supports (F) with the flat washers (G) and Adjustment Knobs (H) as shown. See Figure E.
3. Adjust each Tool Rest until its inside edge (I) is 1/16” from the grinding wheel. Firmly tighten the knobs holding the supports. See Figure E.

Fig. D

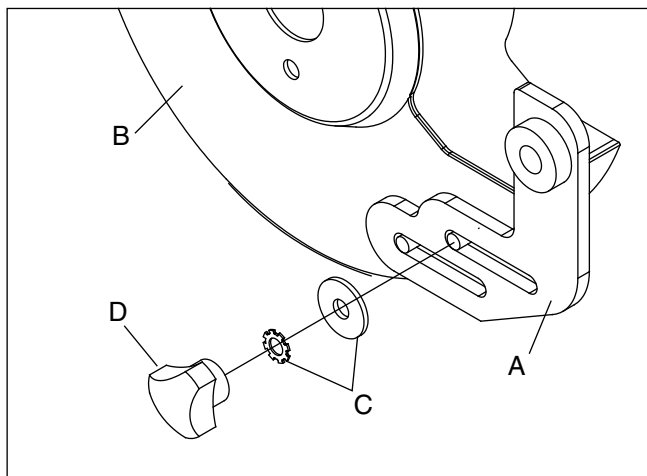
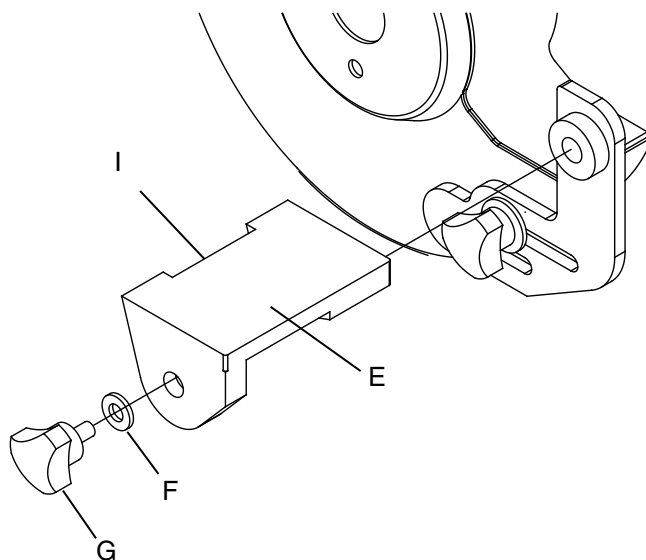


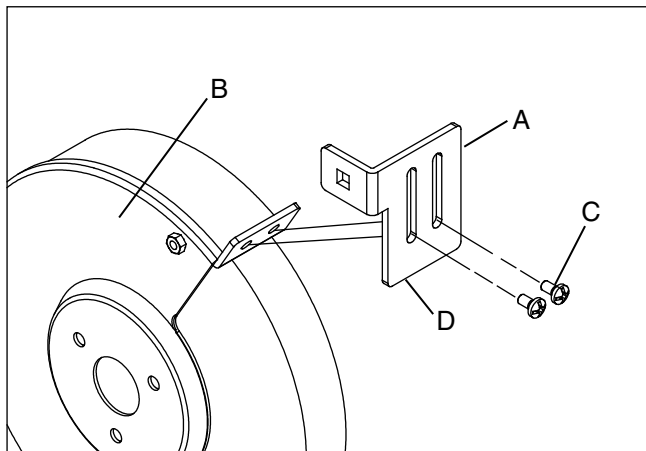
Fig. E



SPARK ARRESTORS (Fig. F)

1. Assemble the Spark Arrestors (A) to the front surface of the Wheel Covers (B) with the flat washers and pan head screws (C) as shown. See Figure F.
2. Adjust each Spark Arrestor until the lower edge (D) is 1/16" from the grinding wheel. Firmly tighten the hex head screws. See Figure F.

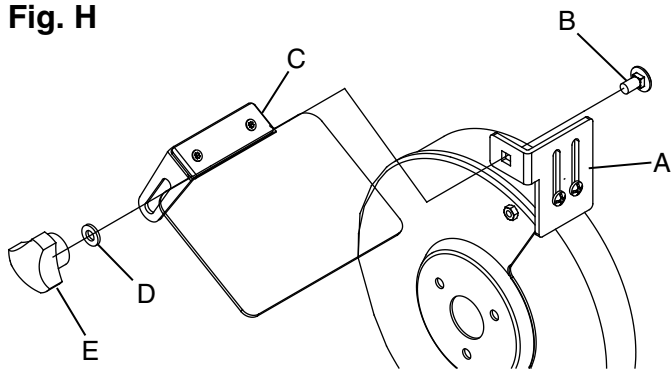
Fig. F



EYESHIELDS (Fig. H)

1. Assemble the eyeshield (C) to the Spark Arrestor (A) inserting carriage head screw (B) through the Spark Arrestor and the Eyeshield as shown. See Figure H.
2. Assemble the flat washer (D) and Lock Knob (E) to the carriage head screw and tighten until the Eyeshield remains in the desired position. See Figure H.

Fig. H



WORK LIGHT

The Bench Grinder is provided with a Flexible Work Light to assist in visibility of the workpiece.

⚠ WARNING

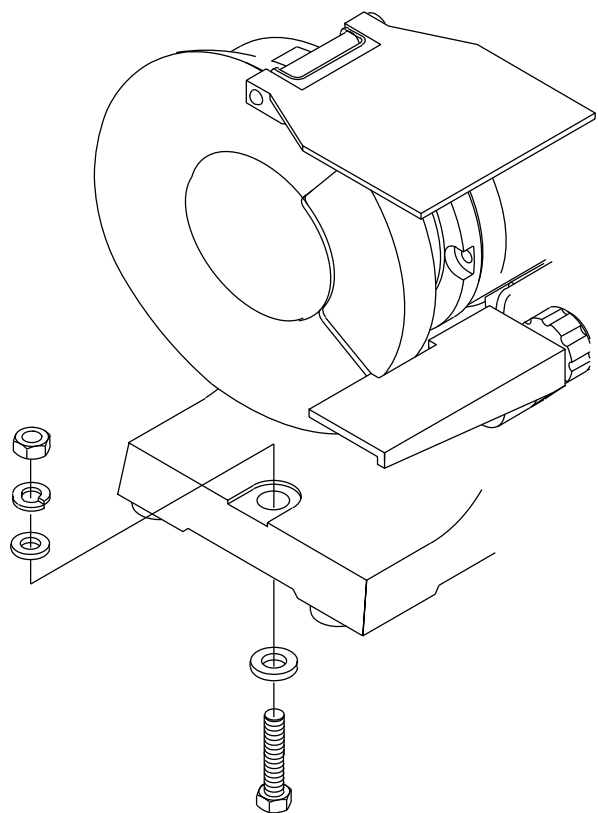
To reduce the risk of fire, use a 120 volt, 40 Watt or less Track Light Bulb, Type R20, medium base or equivalent (not included). **DO NOT** use a light bulb that extends past the end of the light housing.

CAUTION: The Flexible Work Light housing will remain hot for a few minutes after turning it "OFF". Avoid contact with housing until it is cool.

PERMANENT MOUNTING (Fig. I)

Use the mounting pads on the base of the grinder to firmly attach grinder to a solid work surface (hardware not included). See Figure I.

Fig. I



⚠ WARNING

To avoid serious injury, secure the Bench Grinder to a solid work surface. If the Bench Grinder is not securely mounted, it will have the ability to move or tip over during grinding operations and possibly cause the operator's fingers to contact the grinding wheels.

OPERATING THE BENCH GRINDER

The Bench Grinder is designed for hand held grinding, sharpening, and cleaning operations.

ALWAYS WEAR EYE PROTECTION! Hot sparks are produced during grinding operations.

Sharpening and removal of metal can be done on the right side of the Bench Grinder using the grinding wheel. Cleaning of metal surfaces can be done using the wire wheel on the left side of the Bench Grinder.

GRINDING SPEED CHART

<i>Low Speed 1745 RPM</i> <i>Light Duty Operations</i>	<i>High Speed 3450 RPM</i> <i>Heavy Duty/Normal Operations</i>
Light Grinding	Heavy grinding
Sharpening	Stock Removal
Rust and paint removal	Deburring
Lowered grinding temperature	Buffing

1. The Power Switch must be in the "OFF" position and the Variable Speed Switch must be turned to its slowest setting by being turned all the way to the left until solid resistance is felt.
2. Stand to the side of the Bench Grinder and plug in the power cord to a suitable power source.
3. Remain to the side of the Bench Grinder and turn it "ON" by moving the power switch to the up position.
4. Allow the grinding wheels to come up to a steady speed for at least one minute. The R.P.M.'s of the Bench Grinder can be now increased to the desired speed for the particular grinding operation by rotating the Variable Speed Switch clockwise.
5. Adjust the eyeshields. Place the workpiece on the appropriate tool rest for the desired operation.
6. Move the workpiece towards the grinding wheel until it lightly touches. Move the workpiece back and forth across the front surface of the grinding wheel removing the amount of material desired.

WARNING

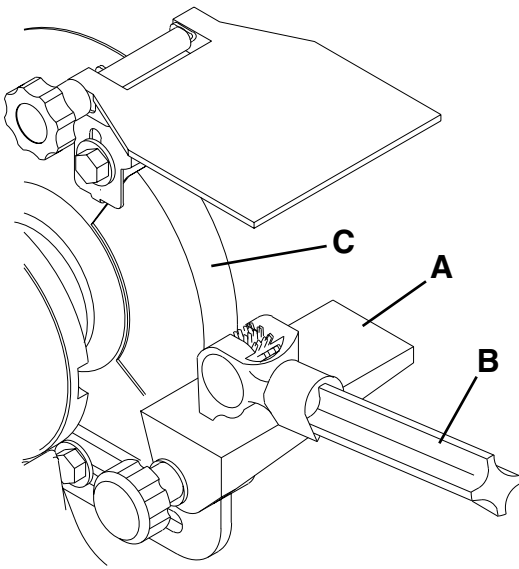
To avoid serious injury, never grind on the sides of the grinding wheels.

7. To use the Drill Bit Sharpening tool rest, lay the drill bit flat in the "V" groove. Firmly hold on to the drill bit shank. Slide the drill bit towards the grinding wheel unit until it lightly touches. Keep the drill bit flat to the plate and rotate the drill bit.
8. The operator may place the hot end of the workpiece into the water in the quench tray to cool it.
9. After completing the grinding operations, turn "OFF" the Bench Grinder by pushing down on the Power Switch. **CAUTION:** It will take a few minutes for the grinding wheels to come to a complete stop.
10. Turn the Variable Speed Switch counterclockwise to return it to its slowest setting.
- CAUTION:** The Flexible Work Light housing will remain hot for a few minutes after turning it "OFF".
11. Avoid contact with housing until it is cool. Unplug the Bench Grinder from the power source.

NOTE: To prevent unauthorized use of the Bench Grinder, the power switch has a removable locking key. With the power switch in the "OFF" position, pull the locking key out. The Bench Grinder cannot be turned "ON" with the key removed. Insert the locking key to resume grinding operations.

USING THE WHEEL DRESSER (Fig. J)

Fig. J



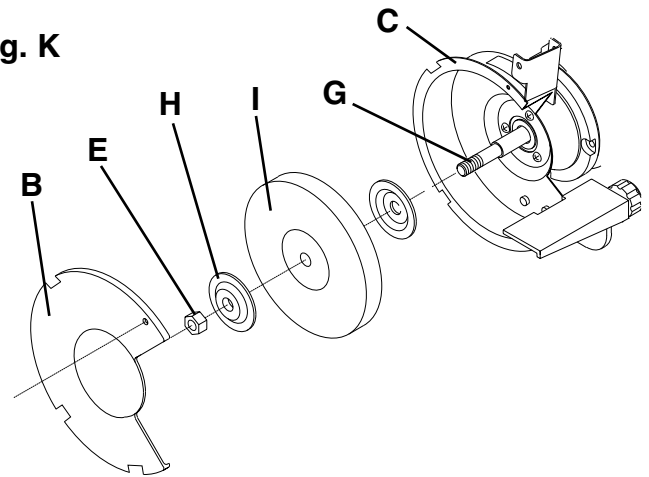
The Wheel Dresser is to be used on the grinding wheels. It will remove buildup up of material on the grinding wheel, remove imperfections and make the corners of the grinding wheel square. See Figure J.

DO NOT use the Wheel Dresser on the Wire Wheel.

1. Adjust tool rest until it is in the flat horizontal position as shown and 1/16" away from the grinding wheel.
2. Turn "ON" the Bench Grinder. and then turn the Variable Speed Switch clockwise until solid resistance is felt. Let the grinding wheel come up to a steady speed for one minute.
3. After the grinding wheel has gotten to a steady speed, place the Wheel Dresser (B) flat on the Tool Rest with the serrated wheels facing the grinding wheel.
4. Firmly hold on to the handle of the Wheel Dresser.
5. Move the Wheel Dresser forward until the serrated wheels make light contact with the grinding wheel (C). After contact has been made, slide the Wheel Dresser side to side across the Tool Rest to dress the grinding wheel until the edge of the grinding wheel is square and the surface is clean.
6. After the operator has completed dressing the grinding wheel, turn "OFF" the Bench Grinder and let the grinding wheel come to a complete stop.
7. Inspect the grinding wheel for any damage!
8. The grinding wheel may now be slightly smaller in diameter after dressing. Readjust the tool rests and spark arrestors to maintain a 1/16" clearance to the grinding wheel.

CHANGING THE GRINDING WHEEL (Fig. K)

Fig. K



Due to normal wear, both wheels will need to be replaced occasionally.

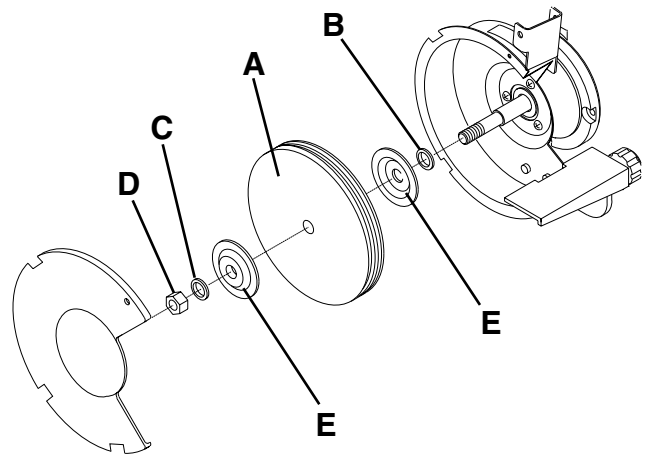
1. Turn the power switch OFF and unplug the power cord from its power source.
2. Rotate the eyeshield up to access the tool rest.
3. Loosen the tool rest knob and rotate the tool rest away from the grinding wheel.
4. Remove the Wheel Cover.

5. Push a wood wedge between the grinding wheel and the guard. Then use a crescent wrench to remove the arbor hex nut.
6. **NOTE:** The left hand arbor hex nut is left hand threaded and is loosened by rotating it clockwise. The right hand arbor hex nut is right hand threaded and is loosened by rotating it counter-clockwise.
7. Remove the Outer Wheel Flange (H) and then the abrasive wheel (I) from the arbor shaft.
8. **CAUTION:** The new abrasive wheel to be put onto the grinder must have a higher R.P.M. rating than the grinder (3450 R.P.M.). The new abrasive wheel must have the correct outer wheel diameter and bore diameter as original wheels. The label on the side of the abrasive wheel must stay on. **DO NOT** remove this label.
9. Replace the abrasive wheel, outer wheel flange and arbor hex nut. **NOTE:** The left hand arbor hex nut is left hand threaded and is tightened by rotating it counter-clockwise. The right hand arbor hex nut is right hand threaded and is tightened by rotating it clockwise.

CAUTION: DO NOT OVER-TIGHTEN the arbor hex nut as this may damage the abrasive wheel and cause serious injury to the operator.

WIRE WHEEL or BUFFING WHEEL (Fig. L)

Fig. L



A wire wheel or buffing wheel (A) can be used with your grinder. Depending on the thickness of the wheel, you will need to add one or more spacers to allow the arbor hex nut to tighten correctly. These spacers are identical to each other. Figure L shows the correct placement of the spacers (B) and (C).

Note: One spacer (B) should always go onto the arbor shaft first. The second spacer (C), if needed, will go on next to the arbor hex nut (D) as shown. Always use the wheel flanges (E) that came with the grinder for both wire wheel and buffing wheels. See section **CHANGING THE GRINDING WHEEL** for correct procedure of changing wheels.

MAINTENANCE OF THE BENCH GRINDER

⚠ WARNING

Turn the power switch “OFF” and unplug the power cord from its power source prior to any maintenance.

LUBRICATION

The Bench Grinder has sealed lubricated bearings in the motor housing that do not require any additional lubrication from the operator.

CLEANING

With the Bench Grinder unplugged, rotate the abrasive wheels slowly and inspect for any damage or trapped shavings.

CAUTION: REPLACE the abrasive wheels if there is any damage at all. **FAILURE** to replace a damaged wheel can cause serious injury to the operator.

CAUTION: DO NOT USE FLAMMABLE MATERIALS to clean the Bench Grinder. A clean dry rag or brush is all that is needed to remove dust and debris buildup.

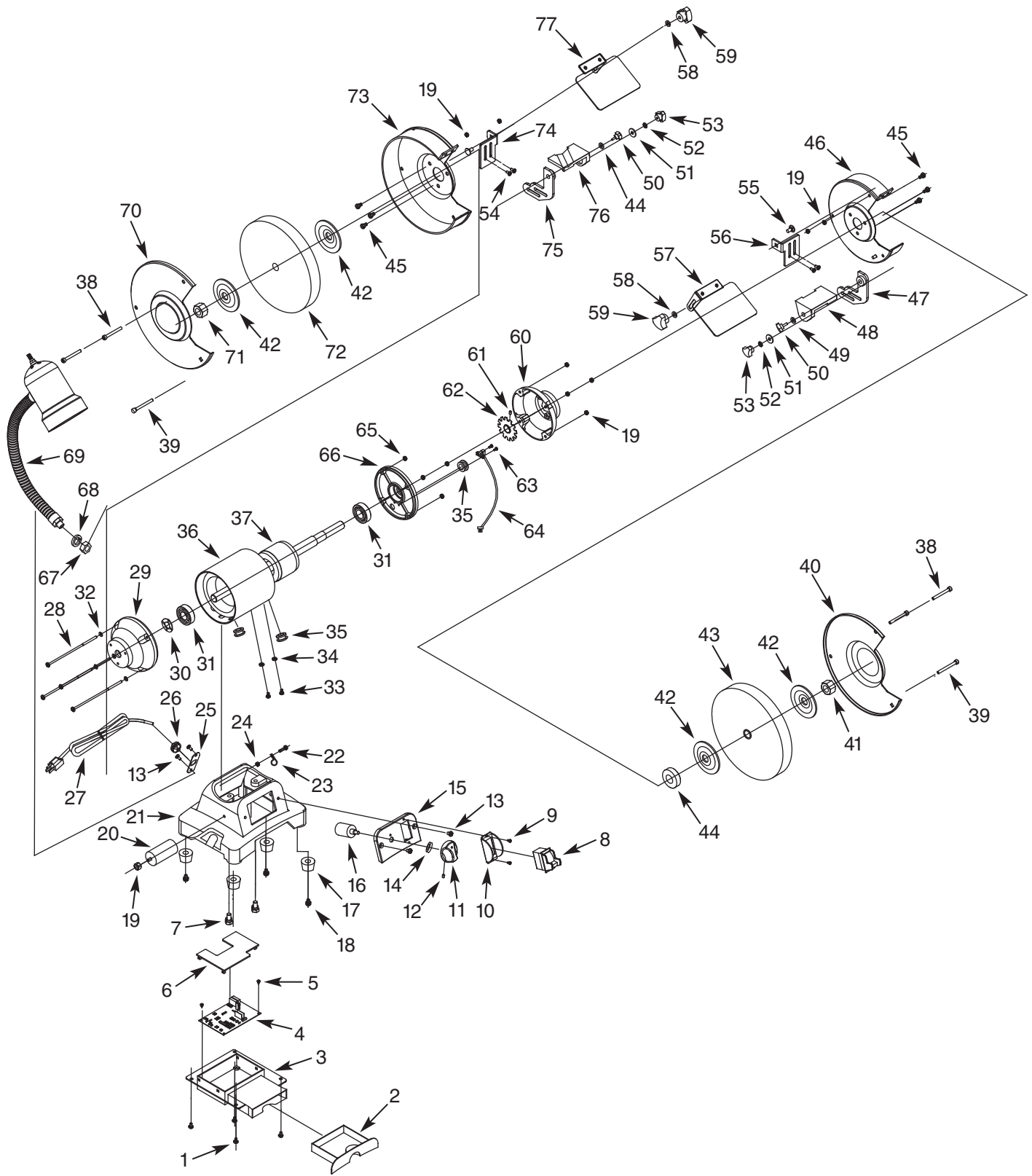
⚠ WARNING

Repairs to the Bench Grinder should be performed by trained personnel only. Unauthorized repairs or replacement with non-factory parts could cause serious injury to the operator and damage to the Bench Grinder

TROUBLESHOOTING

TO PREVENT INJURY TO YOURSELF or damage to the Bench Grinder, turn the switch to the “OFF” position and unplug the power cord from the electrical receptacle before making any adjustments.

PROBLEM	LIKELY CAUSE(S)	SOLUTION
Motor does not run	1. Machine not plugged in 2. Power switch in “OFF” position 3. Power cord is faulty 4. Fuse or circuit breaker are open 5. Circuit board has failed	1. Plug power cord into electrical receptacle 2. Lift switch to “ON” position 3. Replace power cord 4. Overloaded electrical circuit 5. Replace circuit board
Motor does not have full power	1. Incorrect line voltage 2. Capacitor has failed 3. Circuit board has failed	1. Have a qualified electrician check line for proper voltage 2. Replace capacitor 3. Replace circuit board
Motor runs hot	1. Motor is overloaded 2. Poor air circulation around motor	1. Reduce pressure on workpiece 2. Remove any blockage around motor
Motor stalls or runs slow	1. Motor is overloaded 2. Incorrect line voltage 3. Capacitor has failed	1. Reduce pressure on workpiece 2. Have a qualified electrician check line for proper voltage 3. Replace capacitor
Fuse blows or circuit breaker trips	1. Motor overloaded 2. Overloaded electrical circuit 3. Wrong fuse or circuit breaker 4. Undersized or excessive length of extension cord, see manual 5. Grinding wheels are blocked	1. Reduce pressure on workpiece 2. Reduce the amount of items on circuit 3. Replace with correct fuse or circuit breaker 4. Use correct size 5. Unplug machine and remove obstruction



PARTS

8-IN. BENCH GRINDER PARTS LIST

MODEL NO. 1010053

WARNING

When servicing, use only Scheppach replacement parts. Use of any other parts may create a **HAZARD** or cause product damage.

WARNING

Any attempt to repair or replace electrical parts on this Grinder may create a **HAZARD** unless repair is done by a qualified service technician.

Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	4-0.7 x 6mm Pan head screw w/washer	*	4	40	Right guard cover	35515.00	1
2	Coolant tray	35497.00	1	41	16-2.0mm Hex nut	27338.00	1
3	Coolant tray plate	35498.00	1	42	Flange	35516.00	4
4	Circuit board	35499.00	1	43	Grinding wheel 36#	37775.00	1
5	Tap screw	35500.00	2	44	Wire wheel spacer	35518.00	1
6	Cover	35501.00	1	45	5-0.8 x 10mm Pan head screw w/washer	*	6
7	8-1.25 x 22mm Socket head bolt	*	2	46	Right guard w/label	35519.00	1
8	Switch w/key	35502.00	1	47	Right toolrest support	35520.00	1
9	3-0.5 x 10mm Pan head screw	*	2	48	Right toolrest	35521.00	1
10	Switch guard	35503.00	1	49	6mm Flat washer	*	2
11	Knob	35504.00	1	50	Knob	35522.00	2
12	5-0.8 x 10mm Set screw	*	1	51	5mm Flat washer (W)	00227.00	2
13	5-0.8 x 10mm Pan head screw	*	4	52	5mm Lock washer	*	2
14	Spacer	35505.00	1	53	Knob	35523.00	2
15	Switch plate w/label	35506.00	1	54	5-0.8 x 10mm Pan head screw w/washers	*	4
16	Potentiometer	35507.00	1	55	6-1.0 x 12mm Carriage bolt	*	2
17	Foot	35508.00	4	56	Right Spark deflector	35524.00	1
18	5-0.8 x 16mm Pan head screw w/washer	*	4	57	Right eyeshield assembly	35525.00	1
19	8-1.25mm Hex nut	*	9	58	6mm Flat washer	*	2
20	Capacitor	35509.00	1	59	Knob	35526.00	2
21	Base	N/A	1	60	Right end bell	N/A	1
22	4-0.7 x 16mm Pan head screw	*	1	61	5-0.8 x 6mm Set screw	*	1
23	Knob	35510.00	1	62	Feedback wheel	35527.00	1
24	4-0.7mm Hex nut	*	1	63	2.5 x 6mm screw	35528.00	2
25	Cord plate	35511.00	1	64	Sensor	35529.00	1
26	Strain Relief	35512.00	1	65	5-0.8mm Hex nut	*	4
27	Line cord	35513.00	1	66	Cover	N/A	1
28	5-0.8 x 160mm Pan head screw	35514.00	4	67	12-1.75mm Hex nut	*	1
29	Left end bell	N/A	1	68	12mm Flat washer	*	1
30	40mm Wavy washer	31611.00	1	69	Work lamp w/label	35530.00	1
31	6203zz Ball bearing	01901.00	2	70	Left guard cover	35531.00	1
32	5mm Flat washer	*	4	71	16-2.0mm Hex nut LH	27339.00	1
33	4-0.7 x 8mm Pan head screw w/washers	*	2	72	Grinding wheel 60#	35532.00	1
34	4mm Serrated washer	*	2	73	Left guard w/label	35533.00	1
35	Grommet	*	3	74	Left Spark deflector	35534.00	1
36	Stator	N/A	1	75	Left toolrest support	35535.00	1
37	Armature	N/A	1	76	Left toolrest	35536.00	1
38	5-0.8 x 48mm Pan head screw	*	4	77	Left eyeshield assembly	35537.00	1
39	5-0.8 x 51mm Carriage bolt	35342.00	2	Δ	Wheel dresser	35538.00	1

Δ Not shown.

N/A Not available as replacement part.

* Standard hardware item available locally.

LIMITED WARRANTY

ONE-YEAR LIMITED WARRANTY. MODELS COVERED IN THIS MANUAL, ARE WARRANTED TO THE ORIGINAL USER AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED AT OUR OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE "PROMPT DISPOSITION" BELOW. THIS LIMITED WARRANTY GIVES PURCHASERS SPECIFIC LEGAL RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

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Prompt Disposition. A good faith effort will be made for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to the address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

Contact Info:

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